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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/710,950	08/13/2004	Hui-Min Lai	22171-00020-US1	4949
	7590 09/23/200 SOVE LODGE & HUT	EXAMINER		
1875 EYE STR SUITE 1100	EET, N.W.	CHOW, VAN NGUYEN		
WASHINGTON, DC 20006			ART UNIT	PAPER NUMBER
			2627	
			MAIL DATE	DELIVERY MODE
			09/23/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/710,950	LAI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Van N. Chow	2627				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the o	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 18 July 2008. 2a) This action is FINAL . 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ☐ Claim(s) 1-11 and 13 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-11 and 13 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. Application Papers						
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate				

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 7/18/2008 has been entered.

Response to Arguments

Applicant's arguments filed 07/18/2008 have been fully considered but they are not persuasive.

Applicant's asserted, neither Sheu et al. nor Roh disclose the structure or function of the claimed invention that recites: "selecting either the first sledge driving signal or the second sledge driving signal", which is incorrect. Roh discloses a step of driving a sledge of the optical disk by selecting either the first sledge driving signal of the second sledge driving signal (see [0011], and fig. 1, abstract), wherein the selecting unit selects one of the sled control signal SLED0_SERVO and the sled control signal SLED1_MI.

Applicant argued neither Sheu or Roh and neither Shen or Roh disclose a step of "connecting either the first sledge driving signal or the second sledge driving signal to the sledge through a switch", which is incorrect. Roh discloses a selecting unit 161, which selecting one of the first sledge driving signal or the second sledge

driving signal to the sledge through a switch (a selecting unit 161). The amendments submitted on 7/18/2008 have phases "driving a sledge of the optical disk by selecting either the first sledge driving signal of the second sledge driving signal" and "connecting either the first sledge driving signal or the second sledge driving signal to the sledge through a switch", which are the same meaning. See Applicant's application Fig. 1, the above two limitations are the same and pointed the same element 15. Therefore, Roh discloses those limitations.

Note: An interview summary mailed on 7/21/2008 stated "Applican's representative would like to add an switch 15 (Fig. 1) to claim 8, which switches between the first sledge driving signal or the second driving sledge signal. That would overcome the reference Sheu et al". However, Roh discloses the above limitation.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-2, 5-6, 8, 11 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sheu et al. (US 6,717,892) in view of Roh (US 20010014062).

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Regarding claim 1, Sheu discloses an error compensation method for an optical disk drive, comprising the steps of: detecting an error signal showing the deviation of a focal point from a track of the optical disk drive (see Fig. 5, element 78 and col. 4, line 54-col. 5, line 25)); generating a first sledge driving signal based on the error signal showing the deviation of the focal point (see Fig. 5, element 98, 100); generating a second sledge driving signal based on the magnitude of the error signal or the first sledge driving signal (see Fig. 5, elements 88, 98, 100, 70); and wherein the second sledge driving signal intermittently drives the sledge to perform error compensation (see col. 5 and Fig. 5).

Roh, discloses an optical disk drive, comprising the steps of: detecting an error signal showing the deviation of a focal point from a track of the optical disk drive (see [0011], Fig. 1), generating a first sledge driving signal based on the error signal (see Fig. 1); generating a second sledge driving signal based on the magnitude of the error signal or the first sledge driving signal (see Fig. 1); driving a sledge of the optical disk by selecting either the first sledge driving signal of the second sledge driving signal (see [0011, and fig. 1, abstract); and "connecting either the first sledge driving signal or the second sledge driving signal to the sledge through a switch (see response above).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to provide a selecting unit in Sheu as suggested by Roh, the

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Regarding claim 2, the combination Sheu and Roh, discloses the error compensation method for an optical disk drive in accordance with claim 1, further comprising the step of detecting error signals between an actuator and the sledge of the optical disk drive (see Sheu col. 5).

Regarding claim 5, the combination Sheu and Roh, discloses the error compensation method for an optical disk drive in accordance with claim 1, further comprising the step of filtering the error signal smaller than a preset threshold value (see Sheu Fig. 6).

Regarding claim 6, the combination Sheu and Roh, discloses the error compensation method for an optical disk drive in accordance with claim 1, wherein the magnitude of the second sledge driving signal is proportional to that of the error signal or the first sledge driving signal (see Sheu cols. 5-6 and Fig. 6).

Regarding claim 8, see rejection above of claim 1.

Regarding claim 11, the combination Sheu and Roh, discloses the error compensation apparatus for an optical disk drive in accordance with claim 8, wherein the error signal further comprises an error signal between an actuator and the sledge of the optical disk drive (see Sheu Fig. 5).

Regarding claim 13, the apparatus of claim 8, further comprising means for driving the sledge with the second sledge driving signal (see Sheu Fig. 5).

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Claims 1, 3, 6-8, 10-11, 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chen (US 2004/0136282) in view of Roh (US 20010014062).

Regarding claim 1, Chen discloses an error compensation method for an optical disk drive, comprising the steps of:

detecting an error signal showing the deviation of a focal point from a track of the optical disk drive (see Fig. 4, elements 11, 14);

generating a first sledge driving signal based on the error signal showing the deviation of the focal point (see Fig. 5, element 17);

generating a second sledge driving signal based on the magnitude of the error signal or the first sledge driving signal (see Figs. 4, 7, elements 18-19); and

wherein the second sledge driving signal intermittently drives the sledge to perform error compensation (see Fig. 4, elements 20, S1, S2).

Roh, discloses an optical disk drive, comprising the steps of: detecting an error signal showing the deviation of a focal point from a track of the optical disk drive (see [0011], Fig. 1), generating a first sledge driving signal based on the error signal (see Fig. 1); generating a second sledge driving signal based on the magnitude of the error signal or the first sledge driving signal (see Fig. 1; selectively driving a sledge of the optical disk by using either the first sledge driving signal of the second sledge driving signal (see [0011, and fig. 1, abstract); and "connecting either the first sledge driving signal or the second sledge driving signal to the sledge through a switch (see response above).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to provide a selecting unit in Chen as suggested by Roh, the motivation being in order to selectively outputting one of the sled control signals in response to the selecting signal (see Roh [0009]).

Regarding claim 3, the combination of Chen and Roh, discloses the error compensation method for an optical disk drive in accordance with claim 1, wherein the first and second sledge driving signals alternately drive the sledge of the optical disk drive for error compensation (see Fig. 4).

Regarding claim 6, the combination of Chen and Roh, discloses the error compensation method for an optical disk drive in accordance with claim 1, wherein the magnitude of the second sledge driving signal is proportional to that of the error signal or the first sledge driving signal (see Fig. 7).

Regarding claim 7, the combination of Chen and Roh, discloses the error compensation method for an optical disk drive in accordance with claim 1, further comprising the step of dividing the error signal or the first sledge driving signal into segments based on magnitude thereof, wherein the second sledge driving signal generated from the error signal or the first sledge driving signal in the same segment has the same voltage (see Fig. 7).

Regarding claim 8, see rejection above of claim 1.

Regarding claim 10, the combination of Chen and Roh, discloses the error compensation apparatus for an optical disk drive in accordance with claim 8,

wherein further comprising a switch for intermittent by transmitting either the first sledge driving signal or the second sledge driving signal to the sledge of the optical disk drive (see Fig. 4).

Regarding claim 11, the combination of Chen and Roh, discloses the error compensation apparatus for an optical disk drive in accordance with claim 8, wherein the error signal further comprises an error signal between an actuator and the sledge of the optical disk drive (see Fig. 5).

Regarding claim 13, the apparatus of claim 8, further comprising means for driving the sledge with the second sledge driving signal (see Fig. 4).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 4, 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over sheu et al. (US 6,717,892), Roh (US 20010014062) in view of Kawada et al. (6,603,717).

Claims 4 and 9:

Sheu discloses the error compensation method for an optical disk drive in accordance with claim 1, wherein the second sledge driving signal is employed to drive the sledge of the optical disk drive.

Kawada discloses a sledge driving signal is employed to drive a sledge of the optical disk drive when a clock signal is at high level (see Fig. 1, elements 11).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to provide a sledge driving signal is employed to drive a sledge of the optical disk drive when a clock signal is at high level in Sheu as suggested by Kawada, the motivation being in order to control a signal representing a servo loop on signal (see Kawada col. 2).

Regarding claim 9, see rejection above of claim 4.

Cited References

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The cited references relate to a method for detecting the speed of a sledge motor in an optical storage device; a method for calibrating center error offset in an optical drive and control system capable f calibrating center error offset; and a method for detecting running speed of sledge motor in optical storage device.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to VAN T. PHAM whose telephone number is 571-272-7590. The examiner can normally be reached on Monday-Thursday from 9:00 am-6:00pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wayne Young can be reached on 571-272-7582. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/TAN Xuan DINH/ Primary Examiner, Art Unit 2627 September 19, 2008

/Van N. Chow/ Examiner, Art Unit 2627 Application/Control Number: 10/710,950

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